

# SABINE PASS TO GALVESTON BAY, TEXAS COASTAL STORM RISK MANAGEMENT

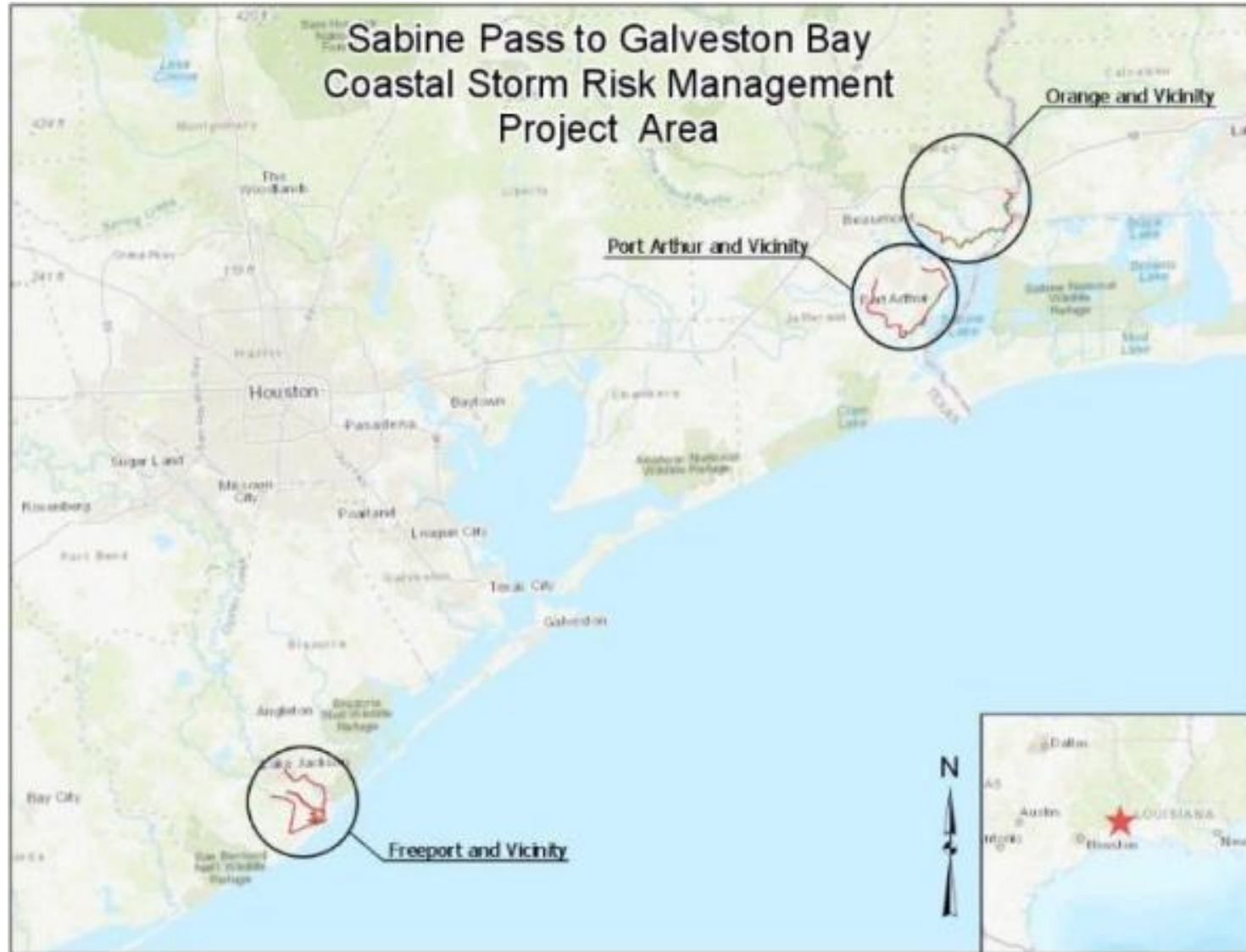
Eduardo Irigoyen  
Project Manager  
SWD/Galveston District/PM-J  
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US Army Corps  
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# STUDY PURPOSE



**Initial:** Examined Coastal Storm Risk Management (CSRM) and Ecosystem Restoration (ER) problems and opportunities within six counties of the upper Texas coast (Orange, Jefferson, Chambers, Harris, Galveston, and Brazoria Counties)

**Focused:** Examined CSRM problems and opportunities for the Sabine Region (Orange and Jefferson Counties) and the Brazoria Region (Freeport Vicinity).



# PARTNER AND STAKEHOLDER SUPPORT

## **Study Sponsor**

Texas General Land Office

## **Implementing Sponsors**

Orange County

Jefferson County Drainage District 7 (Port Arthur)

Velasco Drainage District (Freeport)



## 86<sup>TH</sup> TEXAS LEGISLATURE



### The 86<sup>th</sup> Texas Legislature passed SB500 and SB2212

- SB500 directs \$200 M from the ESF to the GLO for required costs associated with USACE projects and studies.
- SB2212 gives the individual drainage districts the ability to enter into the PPA and accept funds from GLO.



# S2G Acquisition - Critical Path Activities

## DESIGN –

- Award of Freeport A-E SATOC
- Award of Orange A-E SATOC

## CONSTRUCTION –

- PPA
- Real Estate Acquisition
- Award of Horizontal MATOC (Contracts after Dec 2020)



# FREEPORT AND VICINITY CSRM PLAN



- The recommended Freeport and Vicinity CSRM Plan would raise approximately 13.1 miles of existing Levees System and construct approximately 5.5 miles of floodwall.
- Final elevations would range from 15 to 23 feet (NAVD88)
- Navigable sector gates would be installed in the Dow Barge Canal to reduce surge penetration in that area.

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- The recommended Orange CSRM plan includes 15.6 miles of newly constructed levees and 10.7 miles of newly constructed floodwalls and gates.
- Levees will be ranging from 12 to 17.5 feet and floodwalls and gates will be ranging from 13.5 to 16 feet (NAVD88).
- The new system will also include seven pump stations, 56 drainage structures and 32 closure gates.
- Two Navigable sector gates would be constructed in Adams Bayou and Cow Bayou.
- Unavoidable direct and indirect environmental impacts of 2,409 acres of forested wetlands and estuarine marsh will be fully compensated by the implementation of the mitigation plan.



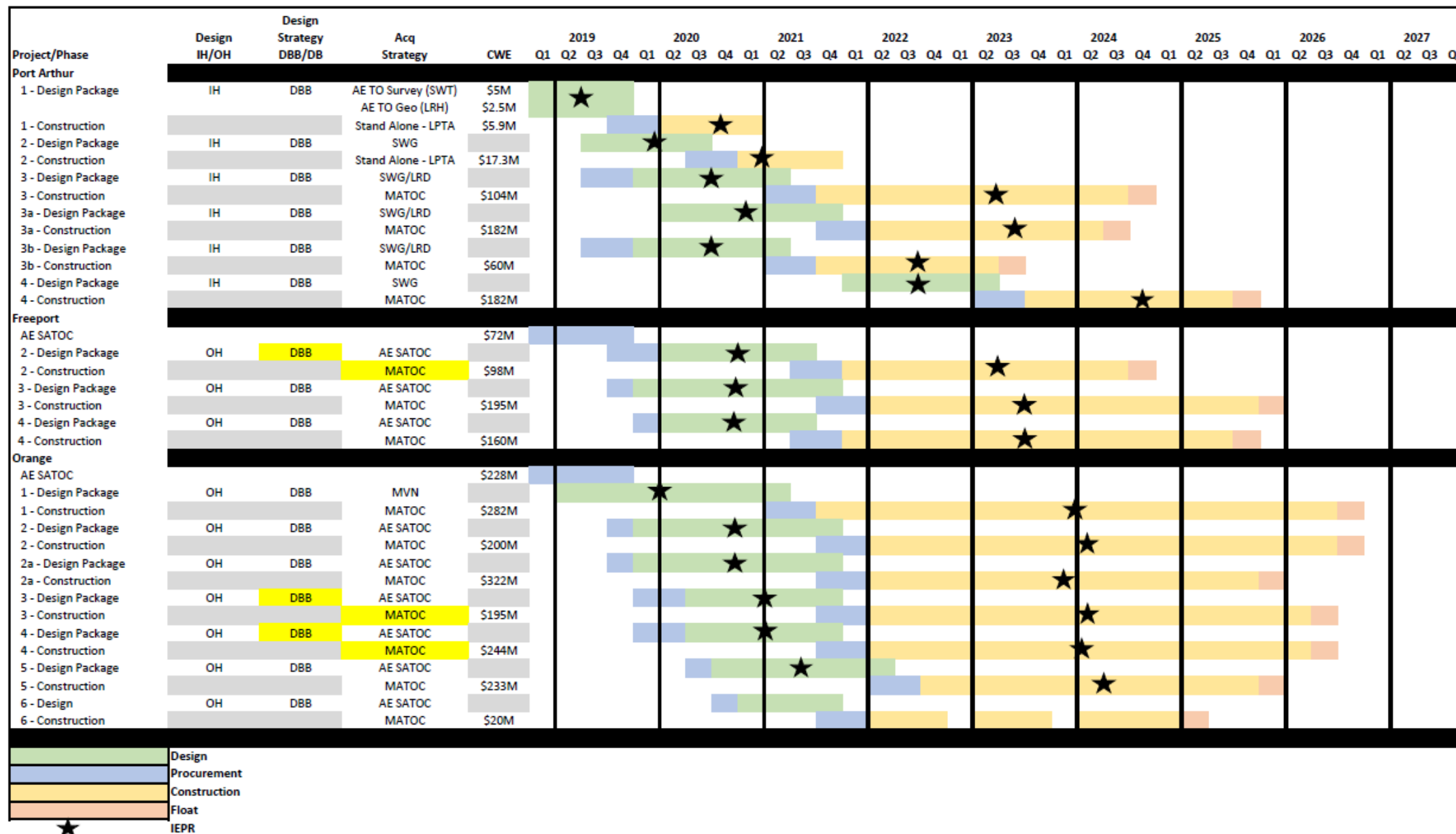
# Port Arthur and Vicinity CSRM Plan



- The recommended plan is to raise approximately 5.5 miles of the existing 27.8 miles of earthen levee to elevations ranging from about 14.4 to 17.2 feet and construct/replace approximately 5.7 miles of floodwall to between 14.4 to 19.4 feet.
- A separate 1800 feet of new earthen levee will be constructed and 26 vehicle closure structures will be replaced and erosion protection added.
- Provides enhanced protection by increasing the level of performance and resiliency of the existing HFPP.
- Contracts will be designed in house with support from other districts.



# Sabine Pass to Galveston Bay - Contract Acquisition Plan





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